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 Battelle

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June 13, 1973

NASA Johnson Space Center
Principal Investigation Management Office
Houston, Texas 77058

Attention Mr. Zack H. Byrns, Code TF6

Dear Mr. Byrns:

Third Progress Report
Calibration and Evaluation of Skylab Altimetry
for Geodetic Determination of the Geoid (Contract NAS9-13276
May 1 to May 31, 1973

PROGRESS

During this period, we completed the development of the mathematical and statistical models required for the reduction and analysis of the S-193 altimeter range data for geoid determination. We continued reviewing the documents received from JSC. An updated list of such documents is attached. We have initiated the development of the computer programs. Geoidal maps and computer data sheets required for ground truth in the test areas have been obtained from Computer Sciences, Inc.

PROBLEMS

No significant problems were encountered.

RECOMMENDATIONS

None at this time.

NEXT PERIOD

During the next period, we expect to (1) complete and debug the computer programs, (2) generate simulated data for validation of computer programs, (3) participate with JSC in planning Skylab passes over test areas.

(E73-10671) CALIBRATION AND EVALUATION
OF SKYLAB ALTIMETRY FOR GEODETIC
DETERMINATION OF THE GEOID Progress
Report, 1-31 May 1973 (Battelle Columbus
Labs., Ohio.) 3 p HC \$3.00 CSCL 08E

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TRAVEL

No travel was made during this period. No travel is planned for next period unless requested by NASA.

RESULTS

There are no numerical results to be transmitted to you at this time.

SUMMARY OUTLOOK

The remaining effort to be performed on this contract is proceeding according to plans.

Very truly yours,



A. George Mourad
Principal Investigator
Project Manager, Geodesy & Ocean Physics
Transportation and Space Systems Department

AGM:eab

Enc.

cc: Mr. V. M. Dauphin, Mail Code TF, NASA-JSC, Houston, Texas (1)
Code KS, NASA-Washington, D. C. (1) ↗

ATTACHMENT

Document Received from JSC (as of April 30, 1973)

	<u>Title</u>	<u>Date</u>	<u>Identification Number</u>	<u>No. of Copies</u>
(1)	EREP USERS HANDBOOK	April, 1972	NASA-S-72831-V	2
(2)	Earth Resources Data Format Control Book	Sept., 1972	--	1
(3)	Skylab EREP Investigator's Data Book	Oct., 1972	--	2
(4)	Earth Resources Requirements Skylab Mission SL-1/2, SL-3 and SL-4	Dec., 1972	IMRD-001 Appendix B	1
(5)	Earth Resources Data Format	March, 1973	PHO-TR543	1
(6)	Earth Resources Requirements Skylab Mission SL-1/2, SL-3 and SL-4	April, 1973	IMRD-001 Appendix B	1
(7)	Skylab EREP Console Operations Handbook Section Seven Field Data	April, 1973	--	1
(8)	Skylab Program EREP Investigators' Information Book	April, 1973	MSC-07874	2
(9)	EREP Console Operations Handbook Appendix A - Field Data Pack	May, 1973	--	1
(10)	Mission Requirements - Appendix B Earth Resources Requirements SL-1/SL-2, SL-3, and SL-4 (Change 1)	--	IMRD-001 Appendix B Change 1	1
(11)	Computer List of Sites with Acceptable May, 1973 Skylab 2 Ground Tracks		--	1
(12)	Mission Requirements - Appendix A, Part 2 - EREP Experiment, Revision E (Data Requirement Skylab Missions SL-1/SL-2, SL-3 and SL-4)	April 20, 1973	IMRD-0001 Appendix A	1
(13)	Skylab EREP Field Data Pack, SL-2 Mission Supplement 1	May, 1973	--	1
(14)	Film Handling Procedures for Skylab S-190A, S-190B, and S-191 Experiments (10 Nov., 72)	May, 1973	JL 12-202	1
(15)	Skylab Standard Film Products Control Document	March, 1973	JL 12-401	1
(16)	Earth Resources Production Processing Requirement for EREP Electronic Sensors	May 10, 1973	PHO-TR524 Rev. A	3